PATENT COOPERATION TREATY

PCT

REC'D 0 3 OCT 2005

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILIMINO

PCT

(Chapter II of the Patent Cooperation Treaty)

(PCT Artcle 36 and Rule 70)

				
Applicant's or agent's file reference HB-20863-PCT	FOR FURTHER ACTION	ON	See Form PCT/IPEA/416	
International application No.	International filing date(da)	/month/year) P	riority date (day/month/yea	r)
PCT/KR2004/000962	26 APRIL 2004 (26.0	4.2004)	09 MAY 2003 (09.05.2003))
International Patent Classification (IPC	c) or national classification and	I IPC		
IPC7 H05H 1/18				
Applicant HANYANG HAK WON CO.	, LTD. et al			· .
This report is the international p Authority under Article 35 and t	ransmitted to the applicant acc	cording to Article 36.		ining
2. This REPORT consists of a tota	of <u>sheets, in</u>	cluding this cover sheet		
3. This report is also accompanied a. (sent to the applicant as	by ANNEXES, comprising: nd to the International Bureau)		sheets, as follows:	
	scription, claims and/or drawing and/or drawing rectifications authorized instructions).			
beyond the disc Supplemental B b. (sent to the Internation containing a sequence	persede earlier sheets, but white losure in the international appliox. and Bureau only) a total of (ind listing and/or tables related the ting to Sequence Listing (see	ication as filed, as indic icate type and number o ereto, in computer reada	ated in item 4 of Box No. I f electronic carrier(s)) ble form only, as indicated i	and the
This report contains indications Box No. I Basis of the	-	:		
Box No. II Priority	to report			
	olishment of opinion with rega	rd to novelty inventive	sten and industrial annlicab	ility
	nity of invention		otop and maddatat appnoad.	
Box No. V Reasoned	statement under Article 35(2) nd explanations supporting su) with regard to novelty,	inventive step or industrial	applicability;
	ocuments cited		•	
Box No. VII Certain de	fects in the international appli	cation		•
	oservations on the internationa			
D. 4 6 1 1 1 1 1 1 1	1,	5.4.6.1.2.63		
Date of submission of the demand	1	Date of completion of th	is report	
07 DECEMBER 200	4 (07.12.2004)	31 AUGUST 2	005 (31.08.2005)	
Name and mailing address of the IPE	A/KR	Authorized officer		ALL DE LOCAL DE LA CONTRACTOR DE LA CONT
Korean Intellectual Prope 920 Dunsan-dong, Seo-gr Republic of Korea	erty Office	SEO, Hawthorne	(
Facsimile No. 82-42-472-7140		Telephone No. 82-42-4	l81-5670	ASIIMA

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/KR2004/000962

Box No	. I Basis of the report	
	th regard to the language, this report is based on the international application in the larguage under this item.	anguage in which it was filed, unless
<u> </u>	This report is based on translations from the original language into the following	language
│ . ┗ -	which is the language of a translation furnished for the purposes of:	guige
	international search (under Rules 12.3 and 23.1(b))	
	publication of the international application (under Rule 12.4)	
	international preliminary examination (under Rules 55.2 and/or 55.3)	
	international preliminary examination (under Rules 55.2 and/or 55.3)	•
to ti	h regard to the elements of the international application, this report is based on (repla ne receiving Office in response to an invitation under Article 14 are referred to in this exed to this report):	
	the international application as originally filed/furnished	•
	the description:	• • •
_	pages	as originally filed/furnished
1	pages* received by this Authority on	
'	pages* received by this Authority on	
	the claims:	
	pages	as originally filed/furnished
		her with any statment) under Article 19
	pages* received by this Authority on	
	pages* received by this Authority on	
	the drawings:	
	pages	as originally filed/furnished
	pages* received by this Authority on	
	pages* received by this Authority on	
3.	the sequence listing and/or any related table(s) - see Supplemental Box Relating to The amendments have resulted in the cancellation of: the description, pages	Sequence Listing.
	the claims, Nos.	
	the drawings, sheets	
1	the sequence listing (specify):	
	any table(s) related to sequence listing (specify):	
4.	This report has been established as if (some of) the amendments annexed to this re made, since they have been considered to go beyond the disclosure as filed, as ind (Rule 70.2(c)). the description, pages the claims, Nos. the drawings, sheets the sequence listing (specify): any table(s) related to sequence listing (specify):	cated in the Supplemental Box
* If ite	m 4 applies, some or all of those sheets may be marked "superseded."	

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/KR2004/000962

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement											
Statement											
Novelty (N)	Claims	1						·			YES
	Claims								<u> </u>		_NO
·· Inventive step (IS)	Claims	1			·	•		•			YES
	Claims										NO
Industrial applicability (IA)	Claims	1				•		·• .			_yes
	Claims								<u>.</u>		NO
	Citations and explant Statement Novelty (N) Inventive step (IS)	Statement Novelty (N) Claims Claims Inventive step (IS) Claims Claims Claims Claims	Claims	Statement Statement Claims 1	citations and explanations supporting such statement Statement Novelty (N) Claims Inventive step (IS) Claims Claims Industrial applicability (IA) Claims 1 Claims	Claims Industrial applicability (IA) Citations and explanations supporting such statement Claims 1	Claims Inventive step (IS) Claims Claims Industrial applicability (IA) Claims supporting such statement Claims 1 Claims Industrial space of the supporting such statement Industrial space of the supporting such space of the supporting such statement Industrial space of the supporting such statement Industrial space of the supporting such	Claims Industrial applicability (IA) Citations and explanations supporting such statement Claims 1	Claims Industrial applicability (IA) Citations and explanations supporting such statement Claims 1	Statement Statement	Claims Industrial applicability (IA) Citations and explanations supporting such statement Claims 1

2. Citations and explanations (Rule 70.7)

The following documents are referred:

D1: KR 2001-60200 A D2: US 6140773 A

1. D1 discloses a plasma generating device in which the working electrode is located near the gas inlet, and the ground electrodes near the emission hole.

D2 discloses a plasma source array in which several sources are mounted in parallel. Accordingly, the subject-matter of Claims 1-4 is considered to be novel (Article 33(2) PCT).

- 2. The closest state of the art appears to be represented by D1. Regarding the independent Claim 1, the technical concept advanced over D1 is the multiple dielectric walls. Said walls separate the cavity into several channels, and make it possible for the gas to flow through said channels. Neither D1 nor D2 suggests those such channels for gas flow. Thus, Claim 1 involves an inventive step and meets the requirement of Article 33(3) PCT.
- 3. The industrial applicability of said subject-matters is self evident.